DUAL BIDIRECTIONAL MOTOR DRIVER



The LB1650 is a high-voltage, high-current dual bidirectional motor driver. It is designed to accept standard DTL or TTL input logic levels and drive inductive loads such as relays, solenoids, DC motors, stepping motors. It contains 2 complementary push-pull output stages, each of which has an inhibit input pin. The internal logic circuit can be operated from a separate supply to reduce power dissipation.

Application

- Multi DC motor driver.
- Bidirectional motor driver.
- Bipolar stepping motor driver.

Features

- 1A output current capability per channer.
- Wide operating voltage range (4.5 to 36V).
- Inhibit facility.

- Input connectable to TTL, CMOS IC.
- High noise margin.

LB1760 monolithic digital IC	CIRCUIT DRAWING No.3070
DISPLAY ELEMENT DIGIT DRIVER	and the second

The LB1760 is a 6-channel transistor array that is composed of NPN transistors and is provided with a strobe pin. It requires very low input current to provide high-current drive.

Features

- Medium breakdown voltage (VCEO ≥ 20V)
- High-current drive (IC = 320mA)
- With clamp diodes
- With a strobe pin
- Wide input voltage range ($V_{IN} = -40V$ to 20V)

LB3500 monolithic digital IC	CIRCUIT DRAWING No.3071
1/8 PRESCALER	
	3017B

Features

- FM frequency can be divided into C-MOS operating frequency.
- Control pin is provided to inhibit the operation of prescaler when it is not in use.
- If used in conjunction with our PLL synthesizer LC7220, electronic tuning system can be formed.

LB8015 monolithic digital IC CIRCUIT DRAWING No.3079 SCHMITT CIRCUIT 3001A

Features

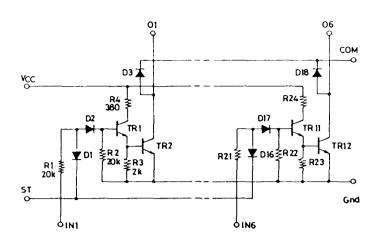
- Large maximum driving current: 200mA
- Wide operating voltage range: 8 to 16V
- Wide operating temperature range: -20°C to +80°C
- High input impedance: Approximately 1M ohm
- High input threshold and large hysteresis and noise margin (Adjustable within a certain range)



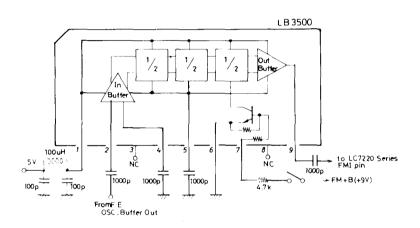
ELECTRONIC TUNING SYSTEMS (monolithic integrated circuit)

Type Number	Page	Case		Cii			
	rage	Package	Pins	Package No.	Circuit Drawing No.	ring Circuit Functions & Applications	Main Specifications
L C 7 2 1 0	222	DIP	28	3012A	4053	PSL ² Electronic Tuning System	Kit available with controller microcomputer, preset memory
L C 7 2 2 0	222	DIP	425	3025B	4054	PLL Electronic Tuning System for FM/AM Radio	(U.S.A. version) FM/MW, 18-dot analog display, VDD=5V, fref=7, 2MHz, used with LB3500 (1/8 prescaler)
L C 7 2 2 1	222	DIP	425	3025B	4054	PLL Electronic Tuning Sysetm for FM/AM Radio	(Japan version) FM/MW, 18-dot analog display, VDD=5V, fref=7, 2MHz, used with LB3500 (1/8 prescaler)
L C 7 2 2 2	222	DIP	425	3025B	4054	PLL Electronic Tuning Sysetm for FM/AM Radio	(Europe version) FM/MW.18-dot analog display.VDD=5V. fref-7.2MHz, used with LB3500 (1/8 prescaler)
L C 7 2 2 3	222	DIP	42S	3025B	4054	PLL Electronic Tuning Sysetm for FM/AM Redio	(Japan version) Same as LC7221, AM1629kHz use
L C 7 2 2 5	222	QIP	64	3026B	4054	PLL Electronic Tuning Sysetm for FM/AM Radio	(U.S.A.version) FM/MW.18-dot analog display, VDD=5V, fref=7.2MHz, used with LB3500 (1/8 prescaler)
LC7226	222	QIP	64	3026B	4054	PLL Electronic Tuning Sysetm for FM/AM Radio	(Japan version) FM/MW.18-dot analog display, VDD=5V,
L C 7 2 2 7	222	QIP	64	3026B	4054	PLL Electronic Tuning Sysetm for FM/AM Radio	fref=7.2MHz, used with LB3500 (1/8 prescaler) (Europe version) FM/MW, 18-dot analog display, VDD=5V, fref=7.2MHz, used with LB3500 (1/8 prescaler)
OLM 7 0 0 0	248	DIP	20S	3021B	5003	Direct PLL Electronic Tuning System	IF counter, high-speed programmable divider capable of direct dividing FM band VCO
OLC7010	219	DIP	425	3025B	4045	LM7000-Used Car Stereo Contoroller	(US, Europe version) 6 channel each of FM/(MW+LW), with clock, LED dynamic display
OLC7030	220	DIP	42S	3025B	4046	LM7000-Used Home Stereo Contoroller	(Japan, US, Europe version) 8 channels each of FM/(MW+LW), with remote control, LFD or FLT dynamic display
OLC7570	235	DIP	42S	3025B	4093	Frequency Display FLT Static Driver	34-segment output. 5 steps, A/D converter, serial data input
OLC7572	236	DIP	18	3007A	4094	Electronic Tuning Preset Address Display LED Driver	16-dot display, 0 to 19 decimal display. 0 to F hexadecimal display, latch function
OLC7580	236	QIP	64	3026B	4095	Frequency Display LCD Driver	Static 1/1duty 53 segments, 1/2duty 104 segments, 5-level AD converter 2 pins
L B 3 5 0 0	197	SEP	9	3017B	3071	1/8 Prescaler	PLL electronic tuning system available with LC7220 series, with INH pin
LA5700	144	DIP	14T	3005A	2110	Voltage Regulator for SL ² Tuning System	$V_{\rm ref}$ =8V. $V_{\rm DD}$ =9V for LC7200,LC7250 of SL 2 system, with backup controller

3070:LB1760 EQUIVALENT CIRCUIT



3071:LB3500 APPLICATION CIRCUIT



3072:LB8050

APPLICATION: Asynchronous intermittent wiper control

